

## SECTION 09900 — PAINTING

## PART 1 GENERAL

## 1.01 SECTION INCLUDES

- A. Prepare surfaces that are to receive finish.
- B. Finish surfaces as indicated in schedule at end of this section.

## 1.02 REFERENCES

- A. The following documents form a part of these specifications to the extent stated herein.
- B. Bay Area Air Quality Management District (BAAQMD)
- C. ASTM International (ASTM)
  - ASTM D 2092 Preparation of Zinc-Coated Galvanized Steel Surfaces for Paint
  - ASTM D 2200 Pictorial Surface Preparation Standards for Painting Steel Surfaces
  - ASTM D 3359 Standard Test Methods for Measuring Adhesion by Tape Test
- D. Society for Protective Coatings (SSPC)
  - SSPC SP 10 Near-White Blast Cleaning
  - SSPC VIS 1 Visual Standard for Abrasive Blast Cleaned Steel

## 1.03 SUBMITTALS

- A. Submit product data and samples in accordance with section 01300 "Submittals."
- B. Product Data: Material data and complete schedule of the materials proposed for use.
- C. Samples:
  - C.1 Color samples, 8-1/2 x 11 inches, for each kind and color showing all coats and undercoats, with shade variations, texture, and sheen properly identified.
  - C.2 Identify each sample as to finish, formula, color name and number, and sheen name and gloss units.
  - C.3 Colors to match existing.

- C.4 After Contracting Officer's Representative (COR) approval, submit two record samples matching the approved samples in color and finish.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Deliver paint materials to the job in new, factory-labeled containers with seals unbroken.
- B. Materials shall be stored at the site only where approved by the COR.
- C. Remove and properly dispose of oily rags, waste, and empty cans from the site at the end of each working day at no additional cost to the Government.

1.05 ENVIRONMENTAL REQUIREMENTS

- A. Do not apply finishes when material, air, and/or surface temperature is below 40°F or on exterior surfaces if rain is imminent (within six hours). Minimum temperature for applying latex paints is 50°F. Use 60°F as minimum temperature when applying enamel finishes.
- B. Provide adequate, continuous ventilation and sufficient heating facilities to maintain temperatures above 45°F for 24 hours before, during, and 48 hours after application of finishes.
- C. Provide at least 25 fc of lighting on surfaces to be finished.

1.06 EXTRA STOCK

- A. Leave on premises, where directed by the COR, at least 1 gallon of each color used.
- B. Containers shall be tightly sealed and clearly labeled for identification.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Products specified herein are Kelly-Moore Paint Co., unless noted otherwise, to establish the quality, utility, and appearance of materials required. Products of Fuller-O'Brien, DuPont, or equal, may be used provided that a list of specific products is submitted and approved prior to application.

B. Prohibited Products:

B.1 All lead-containing paint products are prohibited.

B.2 The use of oils and solvent-based paints shall be in compliance with Bay Area Air Quality Management District (BAAQMD) regulations.

PART 3 EXECUTION

3.01 EXAMINATION

A. Thoroughly examine surfaces scheduled to be painted prior to commencement of work. Report, in writing to the COR any condition that may potentially affect application. Do not commence painting until such defects have been corrected.

B. Correct defects and deficiencies in surfaces that may adversely affect work of this section.

C. By beginning the work of this section, the Contractor indicates acceptance of existing conditions of the substrate as suitable for receiving the work of this section, and warrants same is in accordance with the provisions of preceding paragraphs of subpart 3.01.

3.02 PROTECTION

A. Protect floors, equipment, landscaping, and other work from damage during the painting work.

B. Remove all electrical switch plates, hardware, and equipment of similar nature. Protect all fixtures and other equipment that cannot be removed.

C. At the completion of the painting work, replace all equipment that has been removed.

D. Leave all floors, glass, and other work clean and free from spots. Repair or replace damaged areas of the building, fixtures, or equipment caused by the painting operations at no additional cost to the Government.

E. Place cotton waste, cloths, and other material, which may constitute a fire hazard, in closed metal containers and remove daily from site.

3.03 PREPARATION

A. Prepare all surfaces to receive paint. Remove all rust, scale, and loose paint from metal surfaces in accordance with ASTM D 2200, ASTM D 2092, and SSPC VIS 1. When recommended by the paint manufacturer, clean ferrous surfaces to near-white metal by abrasive blasting in accordance with SSPC SP 10.

- B. After cleaning, pretreat all galvanized steel surfaces with Sherwin-Williams "Kem Aqua 10P (E61G510 and V66V511)," Kelly-Moore, or equal water-based wash primer before applying paint finish.
- C. Touch up all bolts, rivets, welds, and abrasions to shop coats of all metal surfaces with specified primer before applying the second coat.
- D. Unless otherwise specified, use a trisodium-phosphate solution and thoroughly wash existing painted surfaces specified to receive a new coat of paint, and then sand smooth. Remove any old paint that is not completely intact and feather smooth all chipped edges with fine sandpaper.
- E. Perform an adhesion test in accordance with ASTM D 3359 on a mock-up area to verify that the new paint will bond to the existing finish.

#### 3.04 WORKMANSHIP

- A. Erect all staging, scaffolding, and like items as required for the proper execution of the painting work, and remove when no longer required. Place scaffolding so as not to damage existing work or interfere with the work of others.
- B. Apply all material evenly and uniformly, without runs, brush marks, skips, streaks, or sags. Avoid lapping on glass, fixtures, hardware, or equipment.
- C. Before final acceptance, touch up all damaged work and leave it in first-class condition.
- D. Do not paint exterior surfaces in cold, foggy, or damp weather. Dust, sweep, and clean all interior areas before commencing painting. Sprinkle floors, if required, to lay the dust. Conform to and comply with environmental requirements listed in subpart 1.05 "Environmental Requirements."
- E. Mix paint in accordance with the manufacturer's printed instructions.
- F. Each coat of paint shall be a slightly different tint from the preceding coat. Each coat shall receive COR approval before proceeding with the next coat. If the COR determines, solely at its discretion, that coverage is incomplete or not uniform, an additional coat shall be applied at no additional cost to the Government.
- G. All painted windows that are designed to be opened shall be freed of paint welds after paint has dried and shall be left in a workable condition.

### 3.05 MECHANICAL AND ELECTRICAL EQUIPMENT

- A. Color code equipment, piping, conduit, and exposed ductwork in accordance with referenced mechanical and electrical sections for color banding and identification marks (e.g., flow arrows, names, and numbers).
- B. Paint supports for exposed piping, conduit, and ductwork to match the item supported.
- C. Remove grilles, covers, and access panels of mechanical and electrical systems from location and paint separately.
- D. Finish-paint primed equipment to color selected.
- E. Prime and paint insulated and bare pipes, conduit, boxes, insulated and bare ducts, hangers, brackets, collars, and supports, except where items are plated or covered with a prefinished coating.
- F. Replace identification markings on mechanical or electrical equipment when painted-over or spattered.
- G. Paint exposed conduit and electrical equipment occurring in finished areas. Color and texture shall match adjacent surfaces.

### 3.06 CLEANING

- A. As work proceeds and upon completion, promptly remove paint where spilled, splashed, or spattered.
- B. During progress of work, keep premises free from any unnecessary accumulation of tools, equipment, surplus materials, and debris.
- C. Upon completion of work, leave premises neat and clean to the satisfaction of the COR.

### 3.07 PAINTING AND FINISHING SCHEDULE

- A. Painted finishes specified are for a complete job. If such materials have a shop coat applied by other trades, the prime for the first coat shall be omitted from the scheduled requirements.
- B. Where drawings call for painting new work only, paint patches or new openings as required for new work, and apply the finish coat to adjacent existing surfaces to the nearest interior or exterior corner.

- C. Existing painted surfaces to be repainted shall be touched up with the specified primer at all areas where existing paint has been removed during the preparation of the surface.
- D. All mechanical and electrical equipment, pipes, ducts, sheet metal work, and like items exposed to view shall be given the paint finish specified for the particular metal product.
- E. Exterior Painting: (Doors, Door Frames, Primed Sheet Metal, and like items)
  - E.1 Exposed Metal Work:
    - 1 coat Kelly-Moore "1725 Kel-Guard 100% Acrylic Metal Primer," Fuller-O'Brien "621-05 Latex Metal Primer," or equal
    - 2 coats Kelly-Moore "1680 Series Dura-Poxy-Acrylic Enamel," Fuller-O'Brien "615-XX Latex High Gloss Enamel," or equal
  - E.2 Exterior Stucco:
    - 1 coat Kelly-Moore "240 Kel-Bond Primer and Surface Conditioner," Fuller-O'Brien "220-08 Wall Primer-Sealer," or equal
    - 2 coats Kelly-Moore "1200 100% Acrylic," Fuller-O'Brien "262-XX Acrylic Latex," or equal
  - E.3 Existing Louvers:
    - 1 coat O-GEE Paint Co. "UMA Acrylic Bonding Primer," or equal (no known equal)

END OF SECTION